

## **Attachment 2**





John Burcham  
HARRF Superintendent  
1521 South Hale Avenue, Escondido, CA 92029  
Phone: 760-839-6273 Fax: 760-738-5168

June 17, 2004

Mr. John Robertus  
Executive Officer  
California Regional Water Quality Control Board  
San Diego Region  
9174 Sky Park Court, Suite 100  
San Diego, CA 92123-4340  
Attn: POTW Compliance Unit

Subject: Submittal of May 2004 Monthly Monitoring Reports

Dear Sirs:

Attached are the subject reports for the Hale Avenue Resource Recovery Facility (HARRF) as required by NPDES Permit No. CAO107981, Order No. 99-72.

If you have any questions, contact me at (760) 839-6273.

Sincerely,

A handwritten signature in cursive script that reads "John Burcham".

John Burcham  
HARRF Superintendent

Attached: Monitoring Reports

SAN DIEGO REGIONAL  
WATER QUALITY  
CONTROL BOARD  
2004 JUN 22 P 1:06



John Burcham  
HARRF Superintendent  
1521 South Hale Avenue, Escondido, CA 92029  
Phone: 760-839-6273 Fax: 760-738-5168

June 17, 2004

Mr. John Robertus  
Executive Officer  
California Regional Water Quality Control Board  
San Diego Region  
9174 Sky Park Court, Suite 100  
San Diego, CA 92123-4340  
Attn: POTW Compliance Unit

Subject: Submittal of 30-Day Running Average Results for CBODs and TSS for the Hale Avenue Resource Recovery Facility for the Month of May 2004

Dear Sirs:

Attached is the subject report for the Hale Avenue Resource Recovery Facility (HARRF) as requested in your letter dated December 7, 1998.

If you have any questions, contact me at (760) 839-6274.

Sincerely,

A handwritten signature in cursive script that reads "John Burcham".

John Burcham  
HARRF Superintendent

Attached: Percent Removal Report for May 2004.

SAN DIEGO REGIONAL  
WATER QUALITY  
CONTROL BOARD  
2004 JUN 22 P 1:06

Discharger: Hale Avenue Resource Recovery Facility

NPDES Permit No. CAO107981

Order No. 99-72

Report For: May 2004

Report Due: June 30, 2004

Signed Under Penalty of Perjury: Vasam Upchurch

Parameter	TSS				CBOD			
	HARRF Influent mg/l	HARRF Effluent mg/l	Daily TSS % Removal %	30 Day Ave. % Removal %	HARRF Influent mg/l	HARRF Effluent mg/l	Daily CBOD % Removal %	30 Day Ave. % Removal %
1-May-04	241	22.5	90.7%	92.9%				
2	255	32.7	87.2%	92.7%	227	43.8	80.7%	91.4%
3	265	34.7	86.9%	92.5%	234	60.4	74.2%	90.6%
4	269	42.2	84.3%	92.2%	251	56.2	77.6%	89.9%
5	282	54.4	80.7%	91.8%	328	47.4	85.5%	89.6%
6	253	46.0	81.8%	91.3%	298	52.0	82.6%	89.0%
7	239	53.6	77.6%	90.7%				
8	221	44.4	79.9%	90.1%				
9	265	42.8	83.8%	89.7%	273	48.7	82.2%	88.0%
10	519	31.2	94.0%	89.6%	318	48.5	84.7%	87.8%
11	266	34.0	87.2%	89.4%	236	40.3	82.9%	87.2%
12	356	31.3	91.2%	89.3%	281	40.2	85.7%	86.8%
13	311	42.7	86.3%	89.1%	345	47.0	86.4%	86.4%
14	366	25.8	93.0%	88.9%				
15	326	31.4	90.4%	88.7%				
16	605	31.8	94.7%	88.6%	356	63.0	82.3%	85.2%
17	336	34.2	89.8%	88.5%	286	63.0	78.0%	84.9%
18	422	47.6	88.7%	88.4%	320	64.3	79.9%	84.5%
19	407	44.3	89.1%	88.5%	352	58.5	83.4%	84.6%
20	302	38.8	87.2%	88.3%	284	60.3	78.8%	84.0%
21	345	41.6	87.9%	88.1%				
22	316	42.4	86.6%	87.9%				
23	337	47.6	85.9%	87.8%	302	64.9	78.5%	82.8%
24	343	62.6	81.7%	87.5%	315	79.3	74.8%	82.5%
25	299	53.6	82.1%	87.2%	267	62.3	76.7%	82.0%
26	532	70	86.8%	87.1%	364	73.7	79.8%	81.9%
27	271	48.8	82.0%	87.2%	292	64.7	77.8%	81.8%
28	408	42.2	89.7%	87.0%				
29	297	40.8	86.3%	86.8%				
30	270	41.5	84.6%	86.6%	296	65.8	77.8%	80.5%
31	314	63.4	79.8%	86.2%				
Average	330	42.6	86.4%	89.1%	296	57.3	80.5%	85.8%



John Burcham  
HARRF Superintendent  
1521 South Hale Avenue, Escondido, CA 92029  
Phone: 760-839-6273 Fax: 760-738-5168

June 17, 2004

Mr. John Robertus  
Executive Officer  
California Regional Water Quality Control Board  
San Diego Region  
9174 Sky Park Court, Suite 100  
San Diego, CA 92123-4340  
Attn: POTW Compliance Unit

Subject: Submittal of May 2004 Monthly DMR Reports

Dear Sirs:

Attached are the subject Discharge Monitoring Reports (DMRs) for the Hale Avenue Resource Recovery Facility (HARRF) as required by NPDES Permit No. CAO107981, Order No. 99-72.

If you have any questions, contact me at (760) 839-6274.

Sincerely,

A handwritten signature in cursive script that reads "John Burcham".

John Burcham  
HARRF Superintendent

Attached: May 2004 Monthly DMR Reports

SAN DIEGO REGIONAL  
WATER QUALITY  
CONTROL BOARD  
2004 JUN 22 P 1:06

## SELF-MONITORING REPORT REVIEW

To: CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION  
9174 Sky Park Court, Suite 100  
San Diego, CA 92123-4340

DISCHARGER City of Escondido, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION NO. 99-72

REPORT FOR MAY 2004 REPORT DUE JUNE 2004

REPORT FREQUENCY MONTHLY

SIGNED UNDER PENALTY OF PERJURY *John Beershan*

Our Review of the Attached Self-Monitoring Report Reveals the Following Monitoring Violation(s):

1. CBOD (Carbonaceous Biochemical Oxygen Demand) Concentration and Mass loading limits were exceeded during May 2004. These violations are summarized:

CBOD Concentration Limits Violations: The Daily Maximum Limit of 45 mg/l was exceeded on May 3, 4, 5, 6, 9, 10, 13, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 30, & 31 (19 of 22 values). The Weekly Average Limit of 40 mg/l was exceeded May 5, 6, 9, 10, 11, 12, 13, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 30, & 31 (19 of 22 values). The Monthly Average Limits of 25 mg/l was exceeded on May 6, 9, 10, 13, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 30, & 31 (18 of 22 values).

CBOD Mass Loading Limit Violations: The Daily Maximum Limit of 6200 lbs/day was exceeded on May 3, 4, 19, 20, 23, 24, 25, 26, 27, 30 & 31 (11 of 22 values). The Weekly Average Limit of 5500 lbs/day was exceeded on May 6, 9, 10, 17, 18, 19, 20, 23, 24, 25, 26, 27, 30 & 31 (14 of 22 values). The Monthly Average Limit of 3400 lbs/day was exceeded on May 9, 10, 11, 12, 13, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 30 & 31 (17 of 22 values).

2. TSS (Total Suspended Solids) Concentration and Mass Loading were exceeded during May 2004. These violations are summarized:

TSS Concentration Limits Violations: The Daily Maximum Limit of 50 mg/l was exceeded on May 5, 7, 24, 25, 26, & 31 (6 of 31 values). The Weekly Average Limit of 45 mg/l was exceeded May 9, 24, 25, 26, 27, 30, & 31 (9 of 31 values). The Monthly Average Limits of 30 mg/l was exceeded on May 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 30, & 31 (16 of 31 values).

TSS Mass Loading Limit Violations: The Daily Maximum Limit of 6900 lbs/day was exceeded on May 26 & 31 (2 of 31 values). The Monthly Average Limit of 4100 lbs/day was exceeded on May 24, 25, 26, 27, 30 & 31 (8 of 31 values).

3. Acute Toxicity Limit Violation: The Monthly Average Limit of 1.5 TUA was exceeded on May 26, 2004.

Note: Sample taken at Surf Zone Monitoring Station S-7 collected on May 25, 2004 high total and fecal coliforms were seen due to the holiday weekend and high use at the campground. The health department was notified and the following result was back to normal.

The Following Remedial Action will be (has been) Taken to Correct the Monitoring Violation Listed Above:

As reported to Bryan Ott the HARRF had an incident that caused violations on the May Monthly Monitoring Reports.

On April 17, 2004 the treatment process at the HARRF experienced a major setback. An unidentified toxin entered the activated process.

On April 24<sup>th</sup> wasting increased to remove toxin from activated system

On April 25<sup>th</sup> and May 1<sup>st</sup> similar toxic loads hit the plant. We experienced the same process indicators and results as the week prior. After the third weekend of problems the weakened process was unable to recover. At this time the aeration tanks turned black and septic. Secondary settling was poor, turbidity increased along with odors.

On April 27<sup>th</sup> Wasting returned to normal plant WAS rate. Daily addition of Vermatek enzyme product to aeration basin began (50 lbs/day).

On May 1<sup>st</sup> Sampling was setup by the Industrial Waste Inspectors on possible sources of pollutants from May 1<sup>st</sup> and 2<sup>nd</sup> showed a spike in Methylene Chloride, Chloroform, chromium Copper and lead entering the plant.

On May 10<sup>th</sup> Ceased wasting to build Biomass

On May 11<sup>th</sup> Wasting resumed due high presence of septic sludge MLSS 400 ml/L

On May 12<sup>th</sup> Imported 30,000 gals of "seed" sludge from Fallbrook



- On May 13<sup>th</sup> No noted improvement "seed" sludge dead, increased wasting. Addition of 100 lbs per day of Vermatek enzyme product into collection system for 7 days.
- On May 14<sup>th</sup> Increased Dissolved Oxygen residual to 2.0 mg/L
- On May 15<sup>th</sup> Educational article in local paper on problem and effect of toxic dumping
- On May 18<sup>th</sup> Seven day sampling program was initiated on the four (4) main trunk lines ( 4104, 4102, 4018 and 11449) leading to the HARRF. Trunk line #4104 & 4102 showed the highest levels of toxicity. Manhole 4104 on May 18 and 19 showed spike of Methylene Chloride and ¾- Methylphenol. Manhole 4102 on May 18 and 19 showed spike of copper.
- On May 19<sup>th</sup> Centrifuge sludge sample was sent to identify toxic pass through. Sludge had found Acteone, MEK, Carbondisulfide, 1, 4-Dichlorobenze, p-Isopropyltoluene and Methylene chloride.
- On May 20<sup>th</sup> Delivered sample of MLSS and Primary Effluent to Dr. Jenkins
- On May 20<sup>th</sup> Ferric Chloride resumed in Influent Pump Station (IPS)
- On May 20<sup>th</sup> Additional 30,000 of "seed" sludge from Fallbrook
- On May 24<sup>th</sup> Curtailed decanting of Storm Drain Vactor water into collection system
- On May 24<sup>th</sup> Resumed addition of Sodium Hypochlorite to RAS
- On May 25<sup>th</sup> Ceased Ferric Chloride addition - changed to Sodium Hypochlorite
- On May 27<sup>th</sup> Began addition of Ferric Chloride to Mixed Liquor Effluent as secondary settling aid.
- On May 28<sup>th</sup> Changed application point of Sodium Hypochlorite from IPS to Primary Influent
- On June 4<sup>th</sup> Began four (4) day sampling on next area of collection system
- On June 8<sup>th</sup> Operational control of plant solids( MLSS) has occurred and indicated that we were on the right path to recovery. More indicator organisms are present in the MLSS samples. Odor has decreased noticeably.

At present, we have initiated more sampling and increased the frequency of Acute Toxicity monitoring to weekly testing. We are continuing to investigate the circumstances, cause and resolution of above described noncompliance. Updates will be provided.

# MONTHLY EFFLUENT MONITORING REPORT - NPDES No. CA0107981

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 99-72

REPORT FREQUENCY MONTHLY

REPORT FOR : May 2004

REPORT DUE : June 2004

EXACT SAMPLE POINT: Influent Sampling Station

SAMPLE COLLECTED BY Auto Sampler SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY Vann W. Petry

INFLUENT ( Daily 24 hr. Composite )					
	Flow Rate	Suspended Solid	Volatile S. Solid	CBOD	pH
Units	MGD	mg/l	mg/l	mg/l	
DATE					
5/1/2004	14.5	241	199	-	7.5
2	14.3	255	215	227	7.5
3	14.3	265	212	234	7.4
4	14.2	269	224	251	7.5
5	14.0	282	225	328	7.5
6	13.5	253	214	298	7.5
7	13.3	239	194	-	7.4
8	13.4	221	194	-	7.5
9	13.3	265	214	273	7.4
10	13.4	519	405	318	7.4
11	13.3	266	231	236	7.4
12	13.7	356	280	281	7.3
13	13.8	311	256	345	7.3
14	13.6	366	287	-	7.3
15	13.9	326	257	-	7.4
16	14.0	605	448	356	7.7
17	13.7	336	254	286	7.5
18	13.2	422	321	320	7.5
19	13.7	407	314	352	7.4
20	13.5	302	248	284	7.5
21	13.7	345	251	-	7.4
22	13.7	316	254	-	7.5
23	13.7	337	273	302	7.5
24	13.7	343	258	315	7.3
25	13.6	299	241	267	7.4
26	13.5	532	431	364	7.3
27	13.4	271	230	292	7.4
28	13.3	408	317	-	7.3
29	13.5	297	248	-	7.4
30	12.9	270	234	296	7.5
31	13.8	314	235	-	7.6
Average	13.7	330	263	296	7.4
Maximum	14.5	605	448	364	7.7
Minimum	12.9	221	194	227	7.3
Std.Deviation	0.35	90.2	64.2	40.2	0.10

# MONTHLY EFFLUENT MONITORING REPORT - NPDES No. CA0107981

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 99-72

REPORT FREQUENCY MONTHLY

REPORT FOR :May 2004

REPORT DUE : June 2004

EXACT SAMPLE POINT: Effluent Sampling Station

SAMPLE COLLECTED BY Auto sampler SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY

*Vanna Upatya*

DATE	SETTLEABLE SOLIDS			TURBIDITY		
	DAILY GRAB			DAILY 24 hr. COMPOSITE		
	Monthly	Weekly	Daily	Monthly	Weekly	Daily
	Average	Average	Maximum	Average	Average	Maximum
Units	ml/l	ml/l	ml/l	NTU	NTU	NTU
Reqd.	1	1.5	3.0	75	100	225
5/1/2004	-	-	-	9.4	14.1	10.3
2	-	-	-	9.9	15.4	20.1
3	<0.1	<0.1	0.2	10.6	16.7	28.4
4	<0.1	<0.2	0.3	11.4	18.2	36.2
5	<0.1	<0.2	<0.1	12.4	22.1	39.4
6	<0.1	<0.2	0.1	13.6	26.9	42.8
7	<0.1	<0.2	0.2	14.9	31.6	43.9
8	-	-	-	16.0	35.3	36.4
9	-	-	-	17.3	38.7	43.5
10	<0.1	<0.2	0.1	18.3	39.7	35.9
11	<0.1	<0.1	<0.1	19.1	38.8	29.8
12	<0.1	<0.1	<0.1	19.9	37.6	31.1
13	<0.1	<0.1	<0.1	20.8	36.5	34.9
14	<0.1	<0.1	<0.1	21.6	34.3	28.3
15	-	-	-	22.9	35.5	44.9
16	-	-	-	24.2	35.2	41.6
17	<0.1	<0.1	0.1	25.4	36.1	42.4
18	<0.1	<0.1	0.2	27.1	40.9	62.9
19	<0.1	<0.2	0.3	27.8	42.6	43.2
20	<0.1	<0.2	0.2	28.8	43.8	43.2
21	<0.2	<0.2	0.4	29.6	44.6	33.9
22	-	-	-	30.7	44.3	42.6
23	-	-	-	32.3	46.3	56.2
24	<0.2	<0.4	1.0	34.3	50.1	68.4
25	<0.3	<0.7	1.5	36.2	50.6	66.6
26	<0.3	<1.0	2.0	38.1	55.5	77.3
27	<0.4	<1.2	1.3	39.0	57.0	53.8
28	<0.4	<1.3	0.5	40.2	58.8	46.7
29	-	-	-	41.4	59.4	46.9
30	-	-	-	42.6	57.9	45.5
31	<0.5	<1.3	1.0	43.9	55.1	48.9
Average	<0.2	<0.4	<0.5	25.2	39.3	42.8
Maximum	<0.5	<1.3	2.0	43.9	59.4	77.3
Minimum	<0.1	<0.1	<0.1	9.4	14.1	10.3
Std.deviation	-	-	-	10.7	13.0	13.9

MONDAY TO FRIDAY

# MONTHLY EFFLUENT MONITORING REPORT - NPDES No. CA0107981

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 99-72

REPORT FREQUENCY MONTHLY

REPORT FOR :May 2004

REPORT DUE : June 2004

EXACT SAMPLE POINT: Effluent Sampling Station

SAMPLE COLLECTED BY Auto Sampler SAMPLED ANALYZED BY APCL

SIGNED UNDER PENALTY OF PERJURY

Vase Updypit

AMMONIA ( MONTHLY COMPOSITE )						
DATE	Concentration			Mass Loading		
	6 Month Median	Daily Maximum	Instantaneous Maximum	6 Month Median	Daily Maximum	Instantaneous Maximum
Units	mg/l	mg/l	mg/l	lbs/day	lbs/day	lbs/day
Reqd.	130	530	1300	18000	73000	180000
5/1/2004	-	-	-	-	-	-
2	-	-	-	-	-	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
5	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-
9	-	-	-	-	-	-
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-
13	-	-	-	-	-	-
14	-	-	-	-	-	-
15	-	-	-	-	-	-
16	-	-	-	-	-	-
17	-	-	-	-	-	-
18	-	-	-	-	-	-
19	-	-	-	-	-	-
20	-	-	-	-	-	-
21	-	-	-	-	-	-
22	-	-	-	-	-	-
23	-	-	-	-	-	-
24	-	-	-	-	-	-
25	25.6	35.1	35.1	3072	3981	3981
26	-	-	-	-	-	-
27	-	-	-	-	-	-
28	-	-	-	-	-	-
29	-	-	-	-	-	-
30	-	-	-	-	-	-
31	-	-	-	-	-	-
Average	25.6	35.1	35.1	3072	3981	3981

# MONTHLY EFFLUENT MONITORING REPORT - NPDES No. CA0107981

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 99-72 REPORT FREQUENCY MONTHLY

REPORT FOR : May 2004 REPORT DUE : June 2004

EXACT SAMPLE POINT: Effluent Sampling Station

SAMPLE COLLECTED BY Lab Staff SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY Vance Ripchey

EFFLUENT ( Daily Grab )		
	Dissolved Oxygen	Temperature
Units	mg/l	° C
DATE		
5/1/2004	-	-
2	-	-
3	5.5	27.0
4	5.7	25.5
5	5.3	25.0
6	4.9	25.0
7	4.5	24.5
8	-	-
9	-	-
10	4.5	24.5
11	5.8	24.5
12	4.6	25.0
13	4.7	25.0
14	3.2	25.5
15	-	-
16	-	-
17	2.8	24.5
18	4.6	25.0
19	3.3	24.5
20	2.4	24.5
21	3.1	24.0
22	-	-
23	-	-
24	2.0	23.5
25	2.5	24.0
26	1.6	24.5
27	3.3	24.0
28	2.8	24.0
29	-	-
30	-	-
31	6.8	26.5
Average	4.0	24.8
Maximum	6.77	27.0
Minimum	1.6	23.5
Std. Deviation	1.4	0.8

